

PAT-NO: JP407188563A  
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TITLE: SOLVENT-BASED RESIN COMPOSITION,  
FILM OR SHEET CONTAINING SILK FIBROIN SUPERFINE  
POWDER AND LAMINATE USING THE SAME  
PUBN-DATE: July 25, 1995

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ABSTRACT:

PURPOSE: To provide a solvent-based resin composition, a film or a sheet and a laminate containing silk fibroin superfine powder, capable of providing good moisture absorbing and desorbing properties, moisture permeability and touch feeling.

CONSTITUTION: This solvent-based resin composition is obtained by carrying out the first pulverizing step for converting silk fibroin into coarse powder by a dry mechanical pulverizing means, the second pulverizing step for converting the silk fibroin coarse powder into fine powder by a dry mechanical pulverizing means and the third pulverizing step for converting the silk fibroin fine powder into superfine powder having  $\leq 10 \mu\text{m}$  average particle diameter by a dry mechanical pulverizing means and using the silk fibroin superfine powder produced by performing the treatment of converting the silk fibroin powder into the  $\beta$  form during or after at least one step in the first to the third pulverizing steps. A coating liquid 22 containing the resultant silk fibroin superfine powder is applied to a substrate 21 to provide a synthetic leather 26.

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